

PATENT ABSTRACTS OF JAPAN

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(54) MAGNETO-OPTICAL RECORDING MEDIUM

(57)Abstract:

PURPOSE: To obtain a high C/N by generating the change of the direction of the magnetization of a magneto-optical recording layer and the change of the reflectivity of a reflecting layer by light irradiation and recording information.

CONSTITUTION: A magneto-optical recording medium is composed of a substrate 1, an enhancement layer 2, a magneto-optical recording layer 3, a reflecting layer 4 and a protective layer 5. The temperatures of the magneto-optical recording layer 3 and the reflecting layer 4 are elevated partially by irradiation with light, and recording bits 7 are formed to these layers 3, 4. The direction of magnetization is converted by an external magnetic field in the same manner as normal magneto-optical recording in a section corresponding to the magneto-optical recording layer 3 in the recording bits 7 at that time, and reflectivity to light for read is altered in a section corresponding to the reflecting layer 4. Consequently, the change of a strength-rotational angle with the variation of the direction of magnetization and the change of the reflectivity of the reflecting layer 4 can be overlapped in reading, thus improving the performance index. Accordingly, a high C/N can be acquired.

